

STORE FRONTS ~ WINDOWS DOORS ~ ARCHITECTURAL BRONZE



THE
Kawneer
COMPANY

NILES, MICHIGAN

FACTORIES

CHICAGO • BERKELEY
NILES • CHICAGO HEIGHTS

THE
Kawneer
COMPANY

MAIN OFFICES, NILES, MICHIGAN

Cast Bronze Division
Coleman Bronze Company, Chicago

Kawneer West Coast Division
Kawneer Mfg. Company, Berkeley

BRANCH OFFICES				
ATLANTA, GA.	CHICAGO, ILL.	DETROIT, MICH.	NILES, MICH.	PHILADELPHIA, PA.
BUFFALO, N. Y.	CLEVELAND, OHIO	KANSAS CITY, MO.	NEW ORLEANS, LA.	PITTSBURGH, PA.
CHARLOTTE, N. C.	CINCINNATI, OHIO	MILWAUKEE, WIS.	NEW YORK, N. Y.	ST. LOUIS, MO.

Distributors are located in the principal cities of The United States and Canada

SEE OUR PERMANENT EXHIBIT AT THE ARCHITECTS' SAMPLE CORPORATION, NEW YORK, N. Y.

PRODUCTS

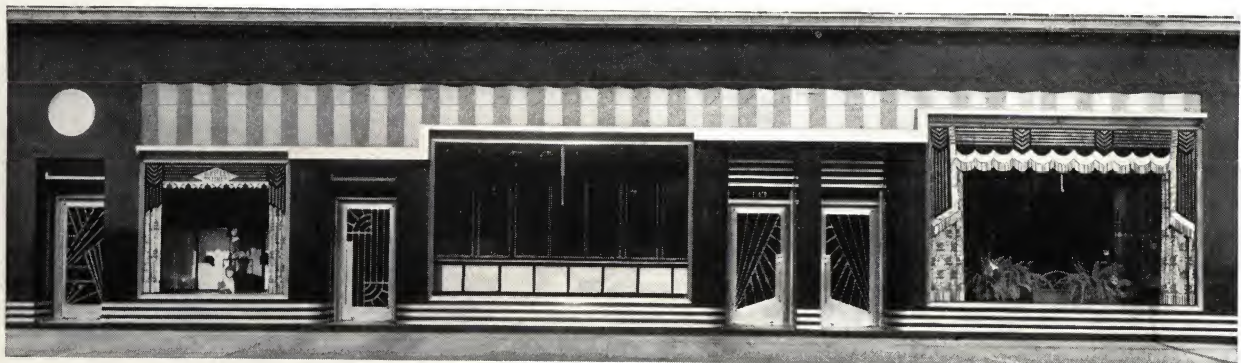
RUSTLESS METAL STORE FRONTS,
SEALAIR WINDOWS, DOORS,
ARCHITECTURAL CASTINGS.



STANDARD NATIONAL BANK OF CHICAGO, ILLINOIS



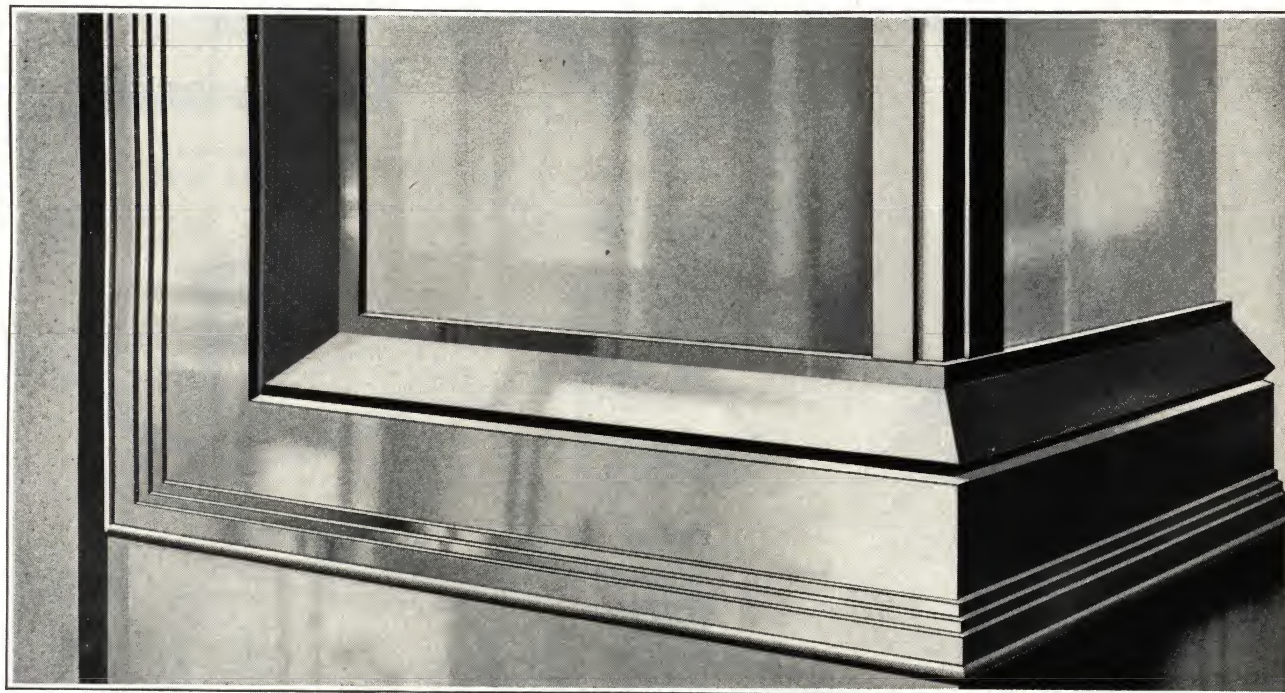
CENTRAL NATIONAL TOWER, BATTLE CREEK, MICHIGAN



ALUMINUM ALLOY STORE FRONT, SOUTH BEND NEWS-TIMES, SOUTH BEND, INDIANA

KAWNEER STORE FRONTS

Patented and Patents Applied for
"B" CONSTRUCTION

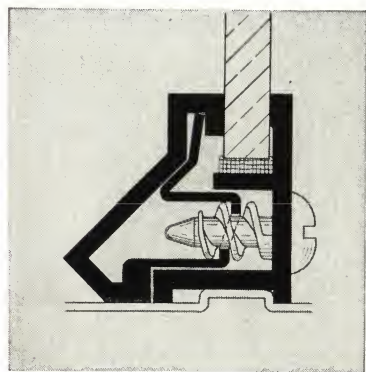


ASSEMBLED UNITS OF "B" CONSTRUCTION

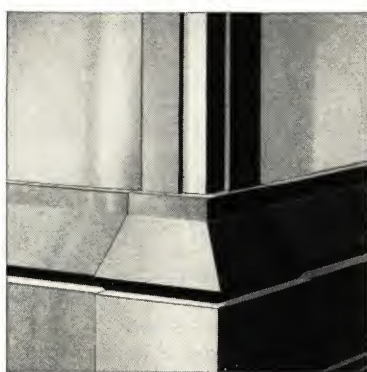
The modern character and strength of Kawneer "B" Construction are evidenced by the accompanying illustrations. Mechanically it is simple and practical. Only one type of screw is used for uniting front and rear members of sash and bars. Possessing considerable strength and size, this screw can be readily adjusted and handled with ease, thus facilitating the process of installation. Another desirable

THE
Kawneer
COMPANY
NILES, MICHIGAN
and subsidiaries
PRODUCTS
RUSTLESS METAL STORE FRONTS, SEALAIR WINDOWS, DOORS, AND ARCHITECTURAL CASTINGS

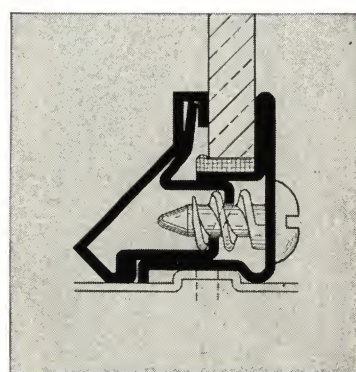
advantage indicated on the following details is the absence of screws from the face of all moulding covers. This arrangement beautifies the store front, giving at moderate cost the effect of solid cast sections. Ventilation and drainage provided for if desired. Filler strip may be applied behind sash. See detail, page 5. Full Size Details will be sent upon request.



"B" Construction Extruded Sash
KE B-1



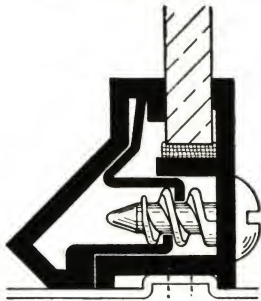
Corner caps furnished when desired



"B" Construction Cold Rolled Sash
B-1

Kawneer Catalogue Copyright 1931 by The Kawneer Company

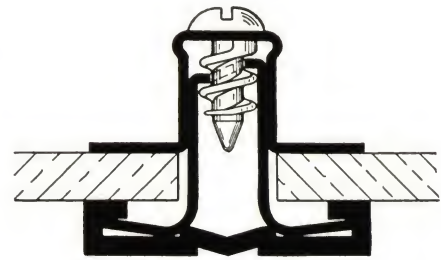
"B" CONSTRUCTION COLD ROLLED AND EXTRUDED BARS



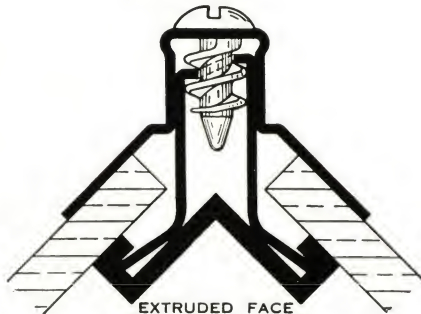
EXTRUDED
SASH KE-B-1



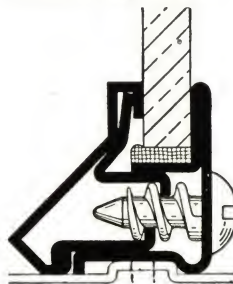
EXTRUDED FACE
CORNER BAR KE-B-2



EXTRUDED FACE
DIVISION BAR KE-B-3



EXTRUDED FACE
REVERSE BAR KE-B-4



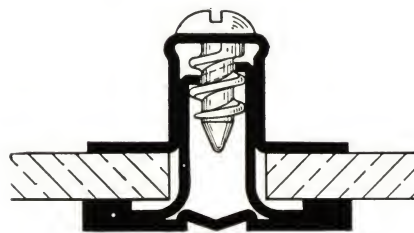
SASH B-1



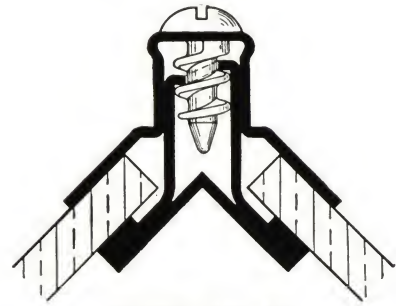
WIDE ANGLE BAR B-2



CORNER BAR B-2
FURNISHED IN VARIOUS ANGLES



DIVISION BAR B-3



REVERSE BAR B-4
FURNISHED IN VARIOUS ANGLES

CROSS SECTIONS SHOWN FULL SIZE

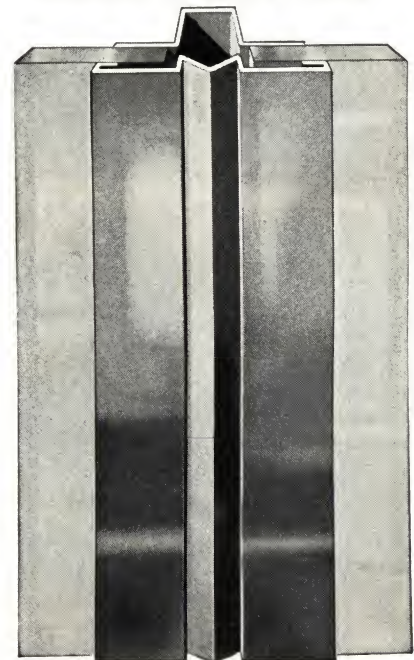
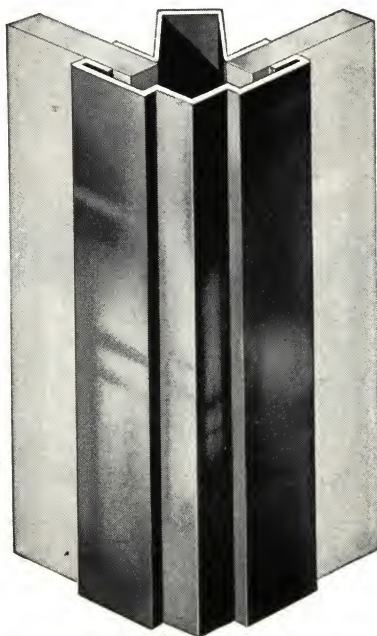
The above bars can be equipped
with stiffeners or reinforcing mem-
bers.

Furnished in any angle desired.

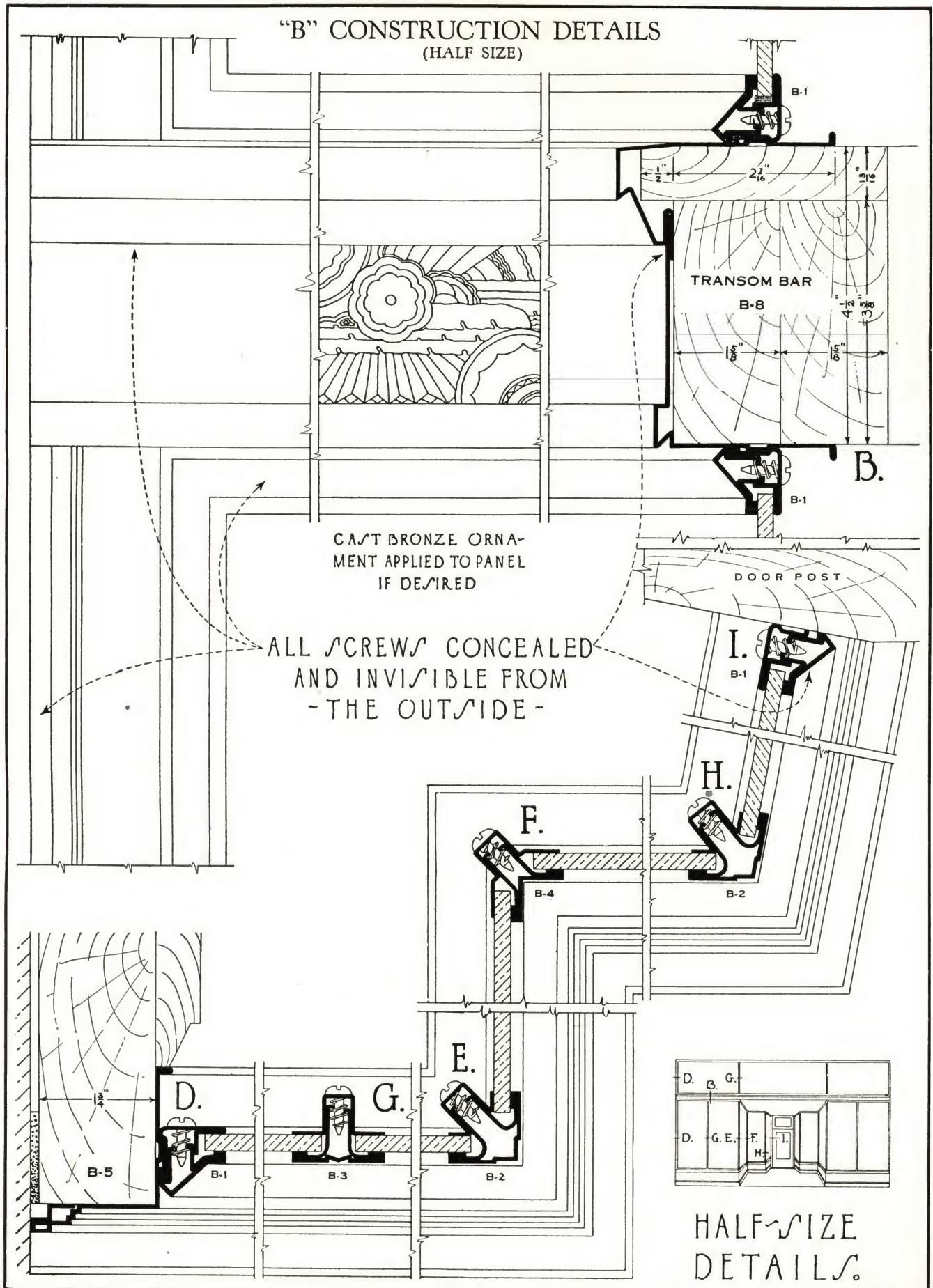
FINISHES

Available for all Kawneer Store
Front Construction

- 8—Polished Bronze
- 9—Light Statuary Bronze
- 17—Satin Bronze
- 18—Aluminum Alloy Polished
- 19—Aluminum Alloy Satin
- 20—Unfinished Bronze
- 21—Dark Statuary Bronze

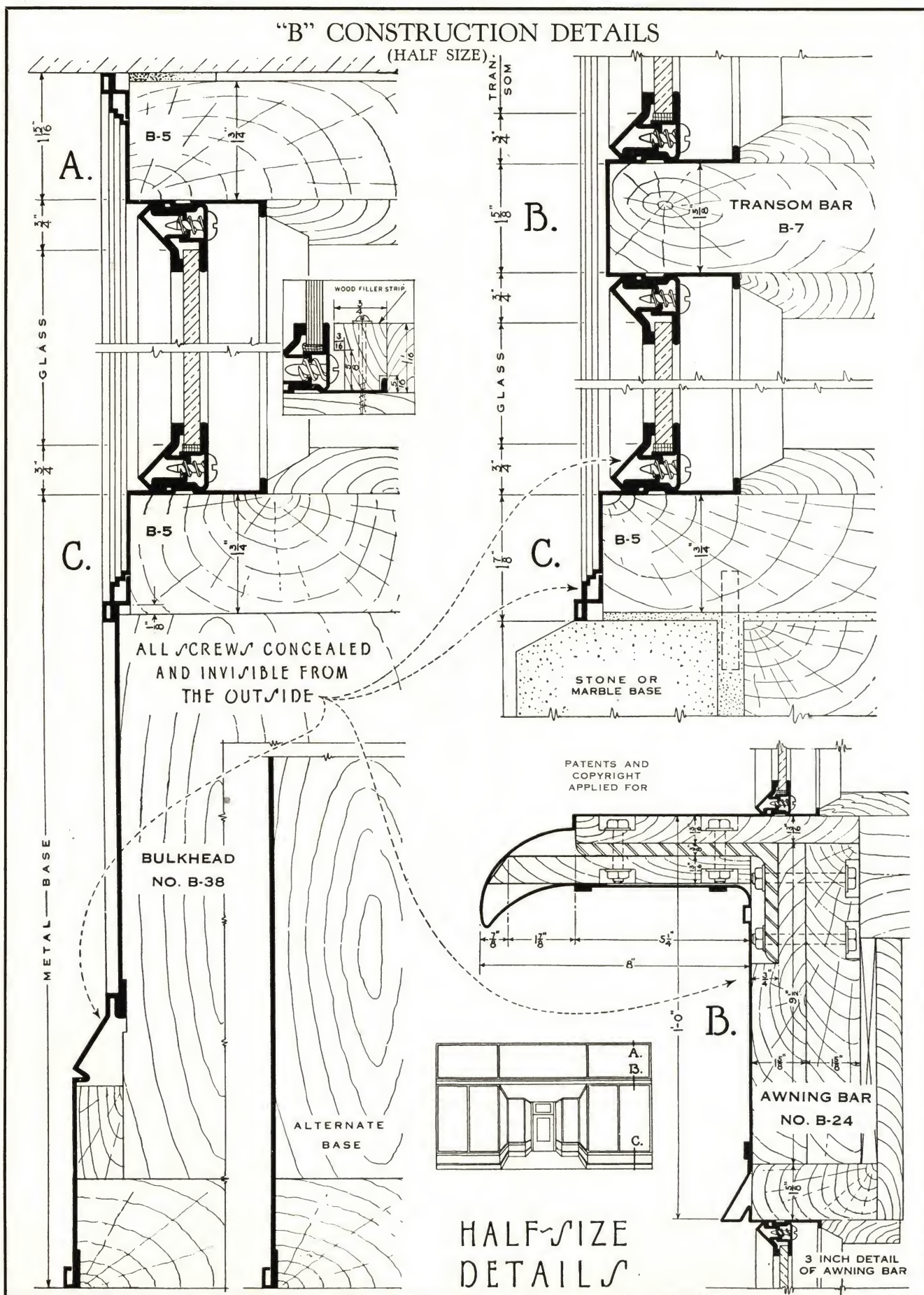


"B" CONSTRUCTION DETAILS (HALF SIZE)

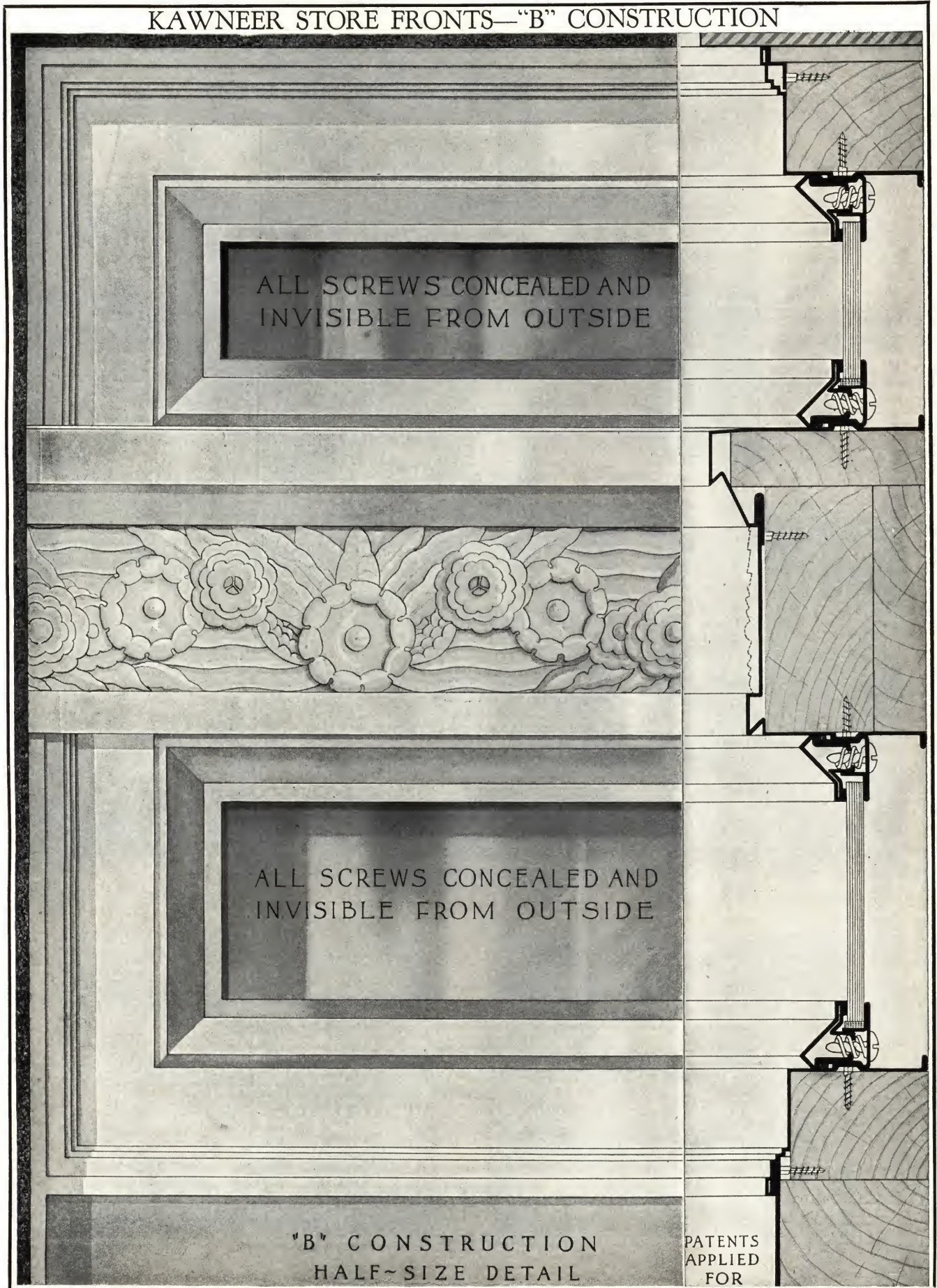


"B" CONSTRUCTION DETAILS

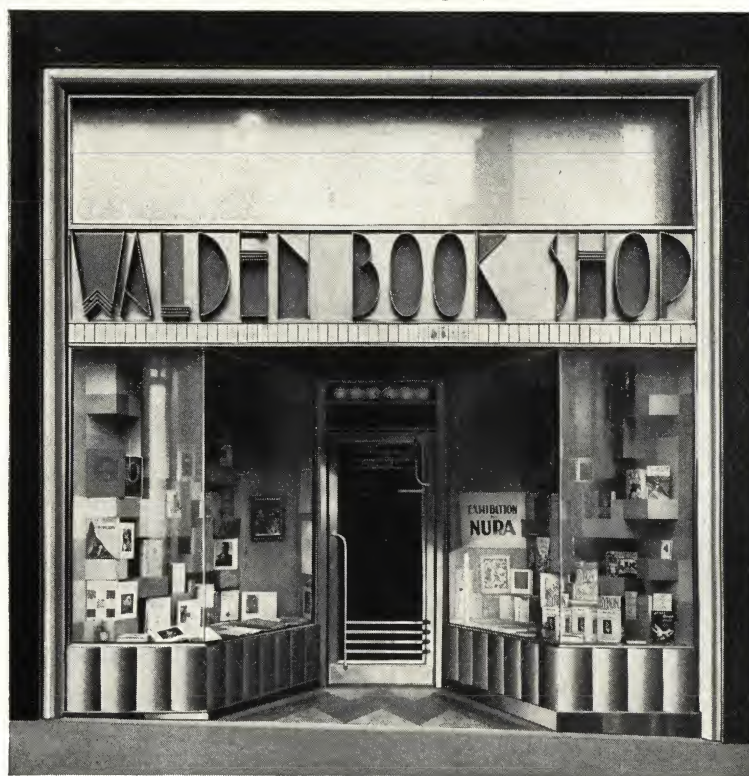
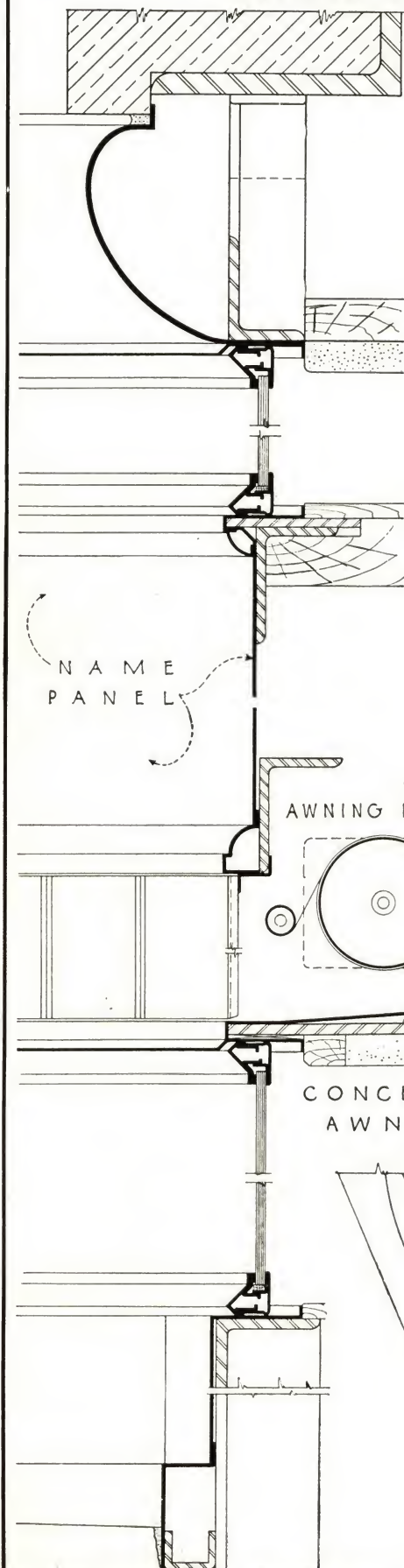
(HALF SIZE)



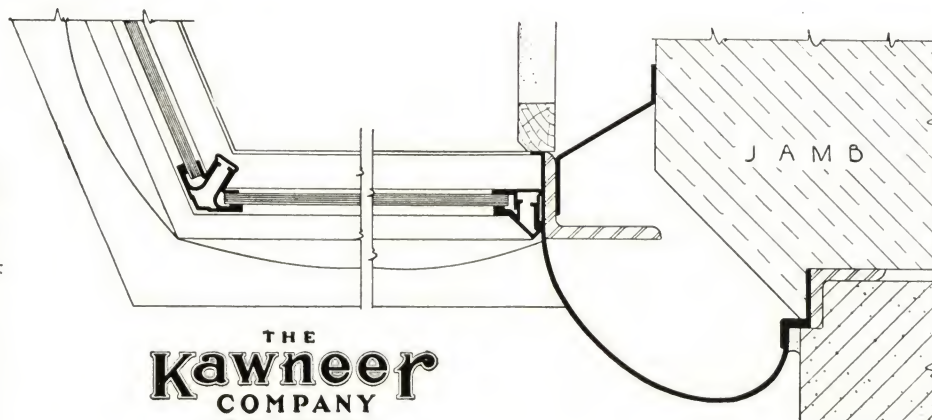
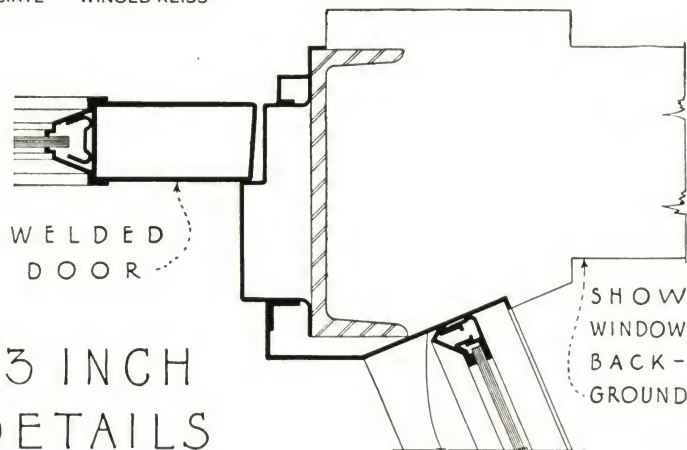
KAWNEER STORE FRONTS—"B" CONSTRUCTION



TYPICAL KAWNEER CUSTOM-BUILT FRONT



WALDEN BOOK SHOP CHICAGO
ARCHITECTS - HOLABIRD & ROOT
ASSOCIATE WINOLD REISS



THE
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NILES, MICHIGAN
and subsidiaries



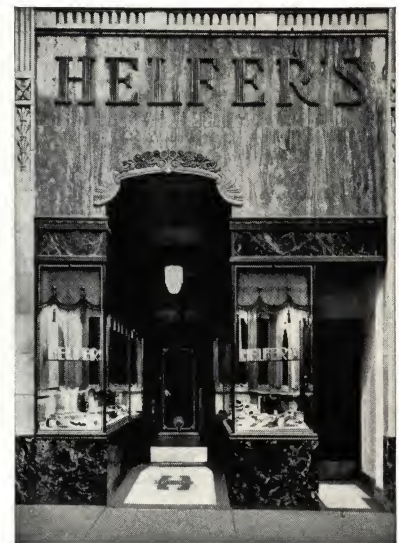
Indiana & Michigan Electric Company, South Bend, Indiana



Bickford's, Flushing, New York



S. & N. Katz, Baltimore, Maryland



Helfer's, Pittsburgh, Pennsylvania



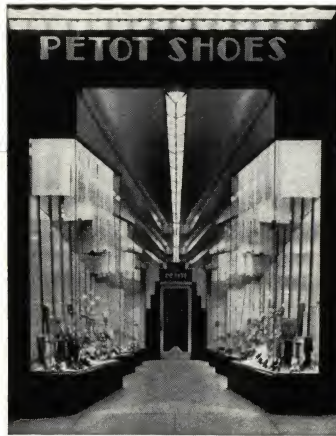
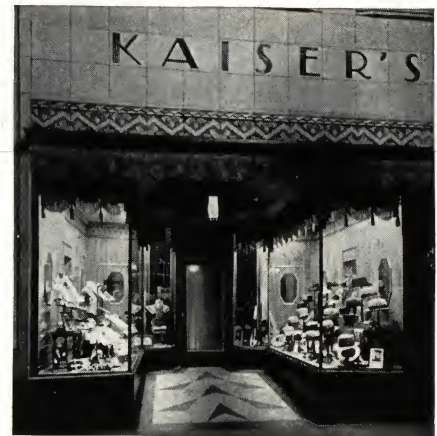
Sander's, Detroit, Michigan



Herpin's, Mobile, Alabama



Café Peacock, South Bend, Indiana

Petot Shoe Store
Cleveland and Cincinnati, Ohio

Kaiser's, Racine, Wisconsin



Dayton's, Milwaukee, Wisconsin

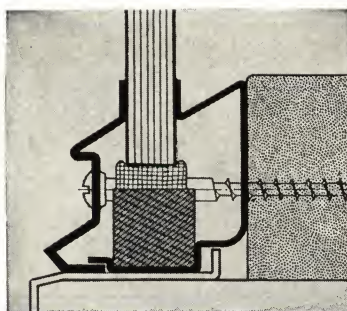


Wisconsin Ice & Coal Company, Milwaukee, Wisconsin

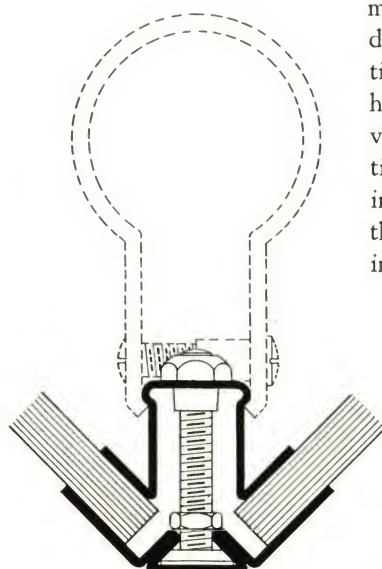


Quigley Building, Chicago, Illinois

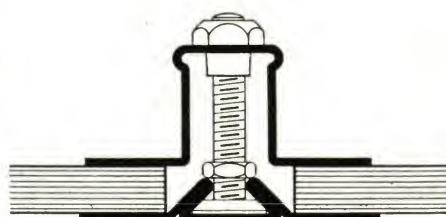
NO. 77 SASH AND ACCOMPANYING BARS



Special Stiffener shown
below is No. 3075

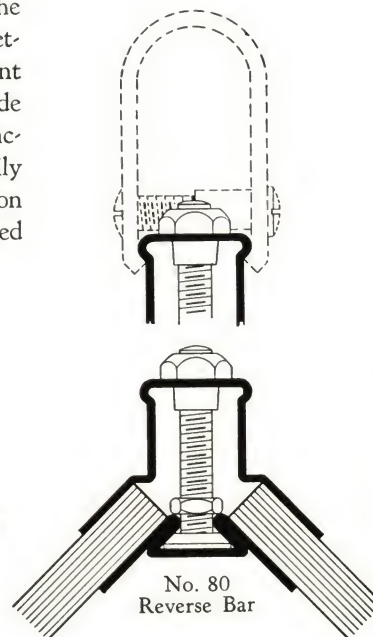


No. 78 Corner Bar



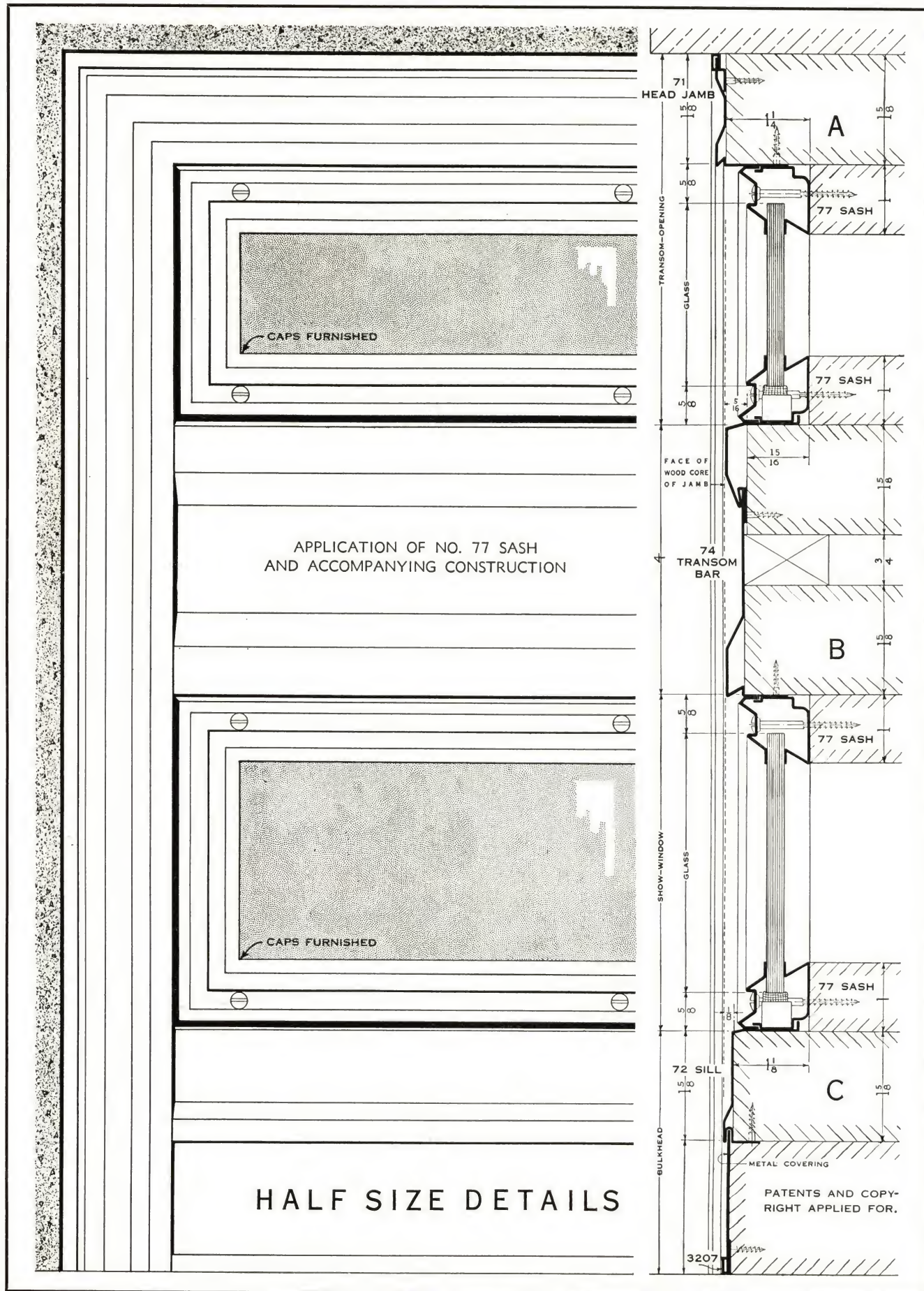
No. 79 Division Bar

Standard Stiffener shown
below is No. 3073

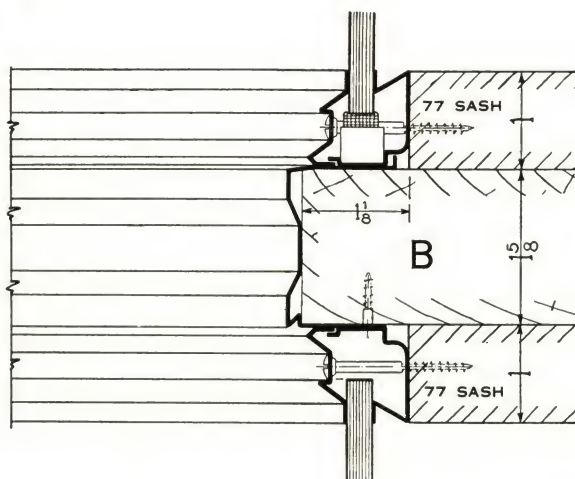
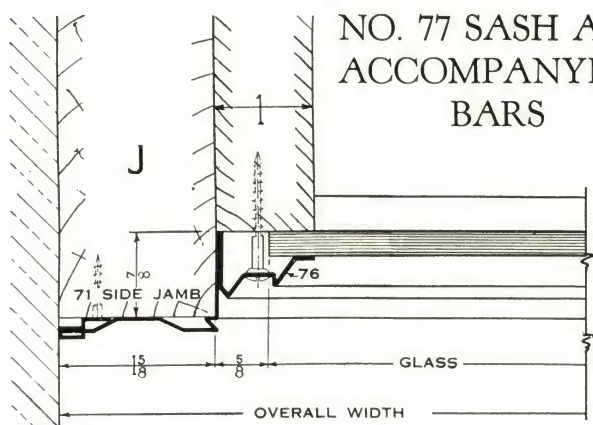


No. 80
Reverse Bar

No. 77 Sash is made of solid cold rolled bronze or aluminum alloy, designed to harmonize with any architectural treatment. The detail above shows the manner in which setting block is held in positive position. Vent holes in gutter and face (optional) provide ventilation and drainage. This sash is distinctive and compact in appearance. It is easily installed, as may be noted by the details on the following pages. The bars can be furnished in any practical angle.

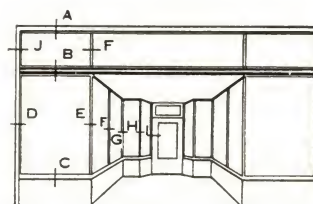
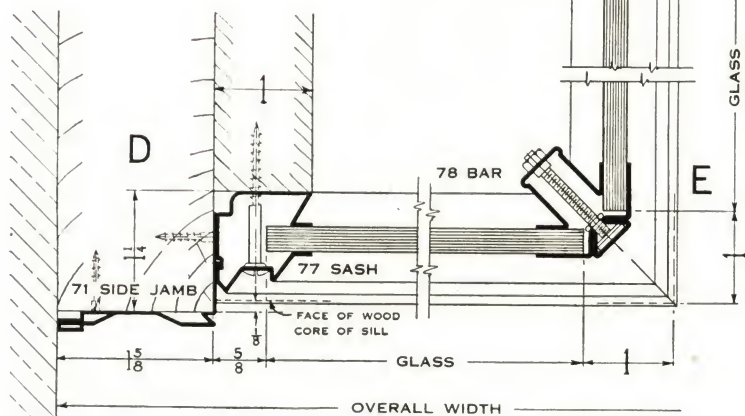
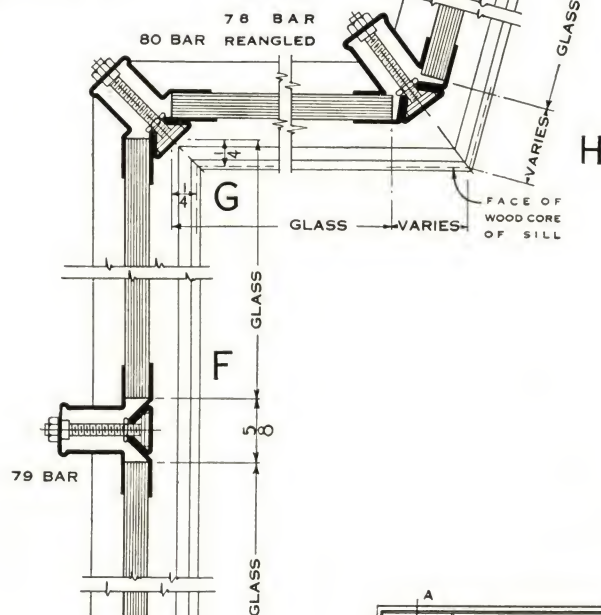
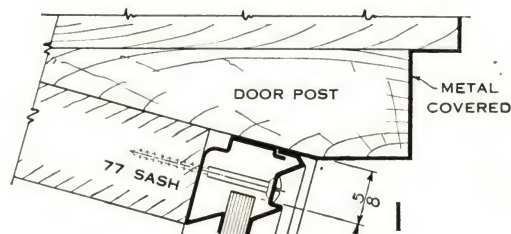


NO. 77 SASH AND
ACCOMPANYING
BARS



EASILY INSTALLED

No. 77 Sash and accompanying construction are easily installed due to the simplicity of their mechanical design. Wherever practical the metal coverings have been designed to fit wood cores of standard sizes, thereby eliminating a large amount of special work. This store front material can be furnished in bronze or aluminum alloy. Full size details sent on request.



HALF SIZE DETAILS

NO. 75 AWNING BAR

ONE-HALF FULL SIZE

WRITE FOR DETAILS
OF NO. 35 R. A. B. RECESSED
AWNING BAR

STEEL HOOD IS DECKED
WITH RUSTLESS METAL.

2553

LAG SCREWS & STEEL
REINFORCEMENT FUR-
NISHED BY THE
KAWNEER COMPANY

2554

 $9\frac{3}{4}$

AWNING ROLL-

[illegible]

TRANSOM BAR

NO. 75-C

ONE QUARTER SIZE

Used in conjunction with
No. 75 bar when hood is
not required.

AWNING BAR SOFFIT
OVER ENTRANCE

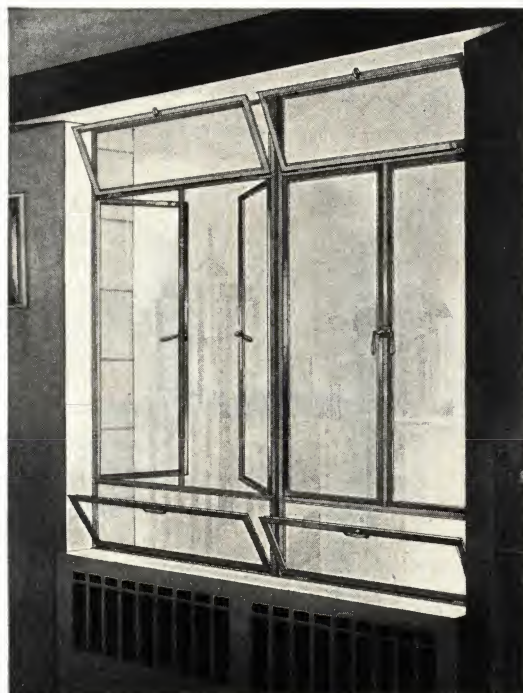
A bar that provides shelter for the awning by means of a continuous steel hood decked with rustless metal, with an abundance of space for awning roll. The steel is painted at factory.

KAWNEER SEALAIR WINDOWS

Patented and Patents Applied for



Combination of In-swinging and Out-swinging Sash



In-swinging Sash

IN-SWINGING, OUT-SWINGING OR A COMBINATION OF BOTH SPECIFICATIONS

MATERIALS—All extruded shapes of Bronze, Aluminum or Nickel Silver shall be formed by reliable manufacturers of extruded products. The metal used is to be of standard commercial alloys, and the best that can be obtained for the purpose intended.

The contractor shall submit with his estimate a drawing or detail showing the minimum size of members for each size opening.

WORKMANSHIP—All members shall be solid, extruded one piece sections, with all faces, edges and arrises true and in perfect alignment with each other. The sections of frames and sash shall be designed to give the same masonry lines, sight lines and glass in the same plane, in all types of openings. Frames shall be coped or mitered and welded. All welding shall be solid and continuous along the entire line of contact. All welded joints exposed to view after installation shall be drawfiled or ground smooth, leaving the joined sections flush with each other.

All welds on Aluminum Windows shall be treated and coated to avoid corrosion.

WEATHERING—All windows shall be Weatherproof, Dustproof and Rattleproof. Hinges shall be designed and arranged so as to provide a continuous three point contact, two resilient and one metal to metal.

The resilient contacts shall be made by using a treated felt strip, formed to fit and pressed and locked into a groove which is slightly larger at the back than at the front.

The metal to metal contact shall be fitted to provide a continuous contact throughout the entire length of the member.

When sash are closed the infiltration of air shall be negligible.

A metal drip bar shall be attached on the outside of the lower rail of all center in-swinging sash that are top or side hung.

Weep holes shall be provided in the horizontal bars between each sash and at the sill of the windows for drainage.

A weather baffle shall be provided between rail and lower part of bottom hung sash.

GLAZING—(Glazing will be done as specified under another branch of the work.)

(All glass shall be back puttied after setting to avoid rattling and to provide a watertight joint between the metal and glass.)

All Sash shall be designed to allow glazing from the inside of the building. Glass shall be secured in place with glazing strips of the same material as the window, mitered at the corners and fastened with machine screws of the same material as the strip.

SCREENS—The screens will be furnished as specified under another branch of the work, but the window contractor shall provide lugs or clips welded to the outside face of the frame for the support of the screens. The projection and nature of these attachments will be furnished according to the screen manufacturer's drawings.

INSTALLATION—All windows shall be installed by the manufacturer, or under his supervision, after the walls are built. Structural steel angle anchors shall be provided on heads and jambs of frames and riveted to the frames. These anchors shall be in continuous lengths or in short sections to fit the various conditions and shall be anchored to the masonry with machine bolts operating in an expansion sleeve of lead. Between the steel anchor and the metal frame, the manufacturer shall provide a heavy coat of bitumen paint.

HARDWARE—All hardware shall be of high grade and shall be of the same material as the window or as otherwise specified. All swinging sash shall be provided with ample hinges of sufficient strength to support sash. All hinges shall be made of extruded sections and hardened steel pins. Provide at the top of top sash a spring for pole operation. Inswinging top sash shall have a chain stop attached to outside of frame and sash. Provide one pole 5 feet long with cast metal hook for each 5 windows. Center sash top hinged shall have hinges of same size and centering as the sash above. They shall have a cast metal handle and the jambs shall be provided with friction arm stays.

When center sash are hinged on the side, hinges of sufficient strength and size shall be provided according to size of sash.

These sash shall have standard type, cast casement latch, one for all sash under 5 feet in height, a two throw latch for sash 5 to 7 feet in height and a three throw latch for all sash above seven feet high.

A friction stay shall be provided at the bottom and top.

Bottom sash shall be provided with a cast latch and with hinges of same size and spacing as specified for top sash bottom hinged.

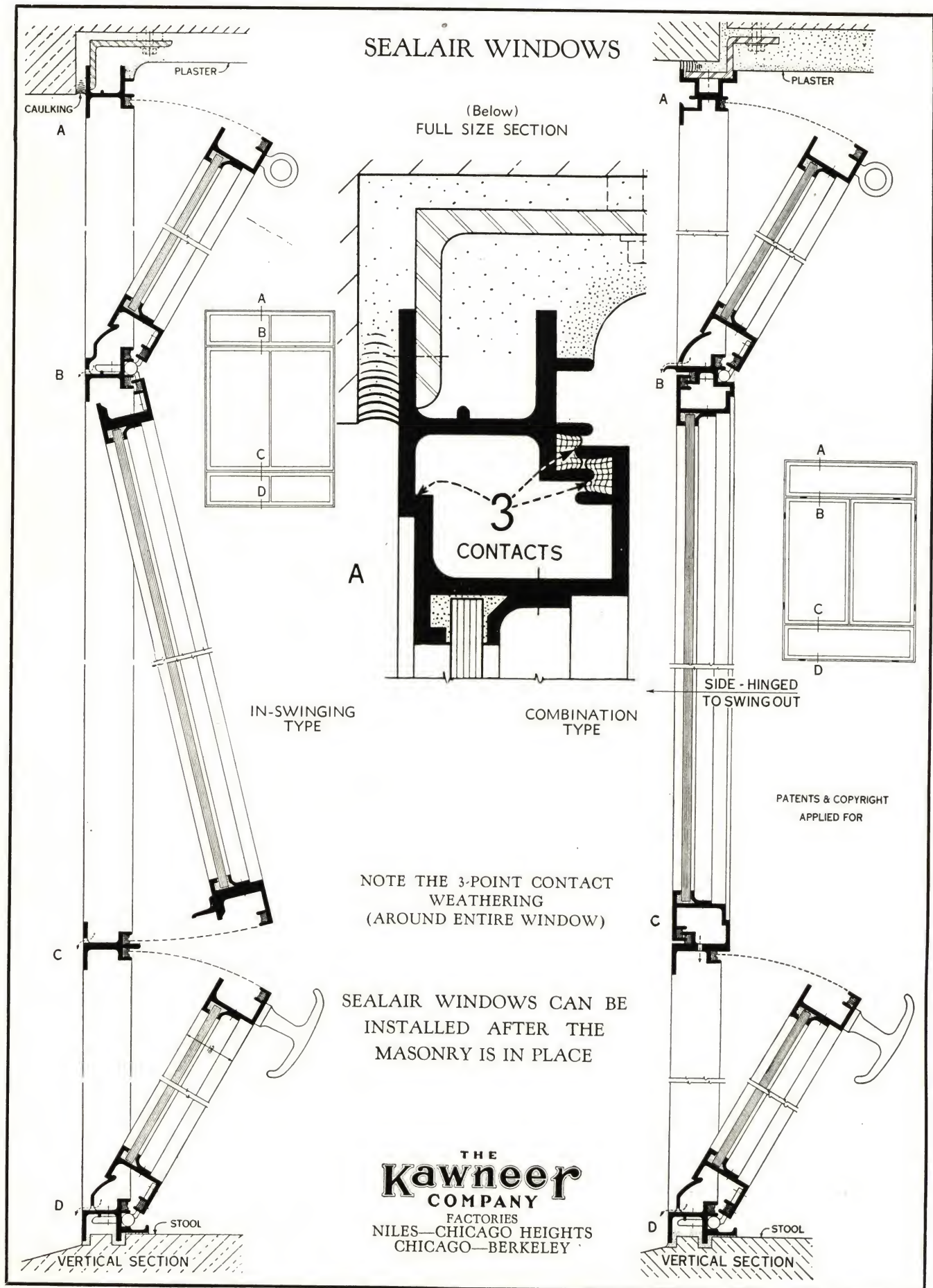
FINISH—All frames and sash shall have a fine sand finish which shall be protected with a coating of Kre.

Guarantee

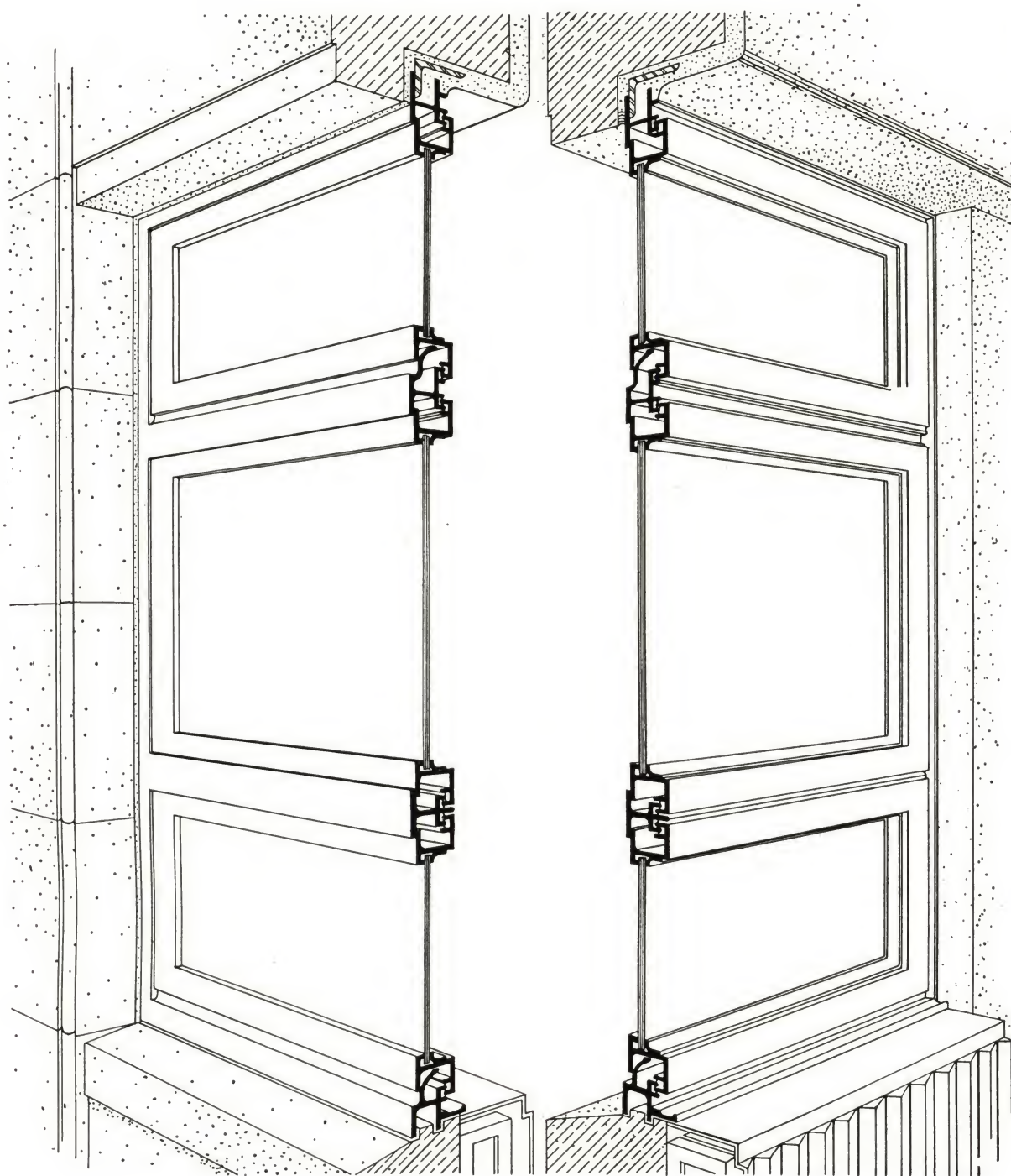
All material and workmanship will be guaranteed by the manufacturer against all defects for a period of twelve months after the completion of the installation.

Any defects occurring within this time shall be promptly remedied upon notice from the Architect or Owner.

THE
Kawneer
COMPANY
NILES, MICHIGAN
and subsidiaries



SEALAIR WINDOWS



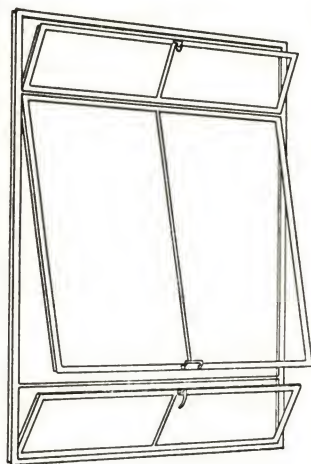
EXTERIOR VIEW

INTERIOR VIEW

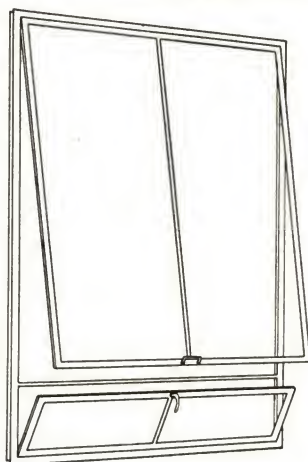
Note the plain surfaces and clean-cut lines of the Sealair Window when viewed both from the exterior and interior. Built of solid extruded sections strongly welded at all corners, these windows combine rugged strength with graceful appearance.

On the next page are shown twelve standard types of both in-swinging and combination in-swinging and out-swinging models, which may be designed to conform with the architect's requirements.

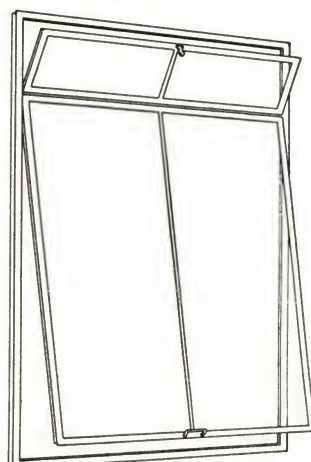
IN-SWINGING SASH



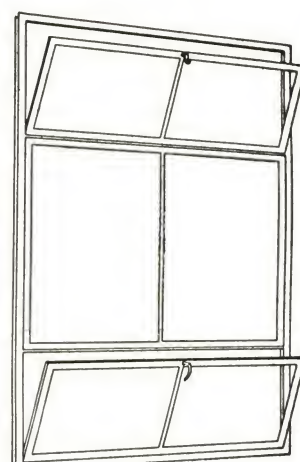
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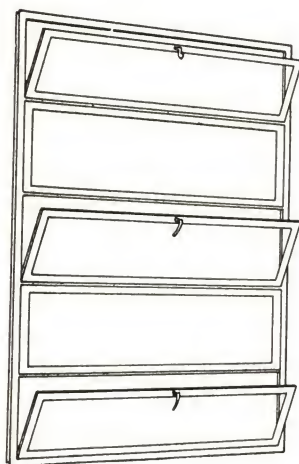
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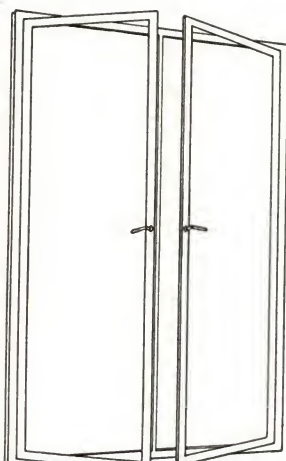
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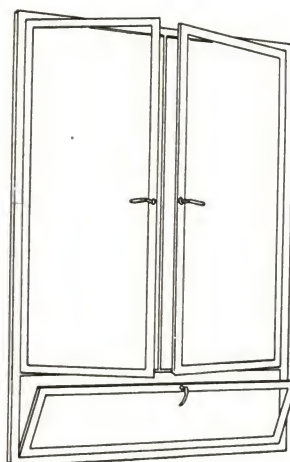
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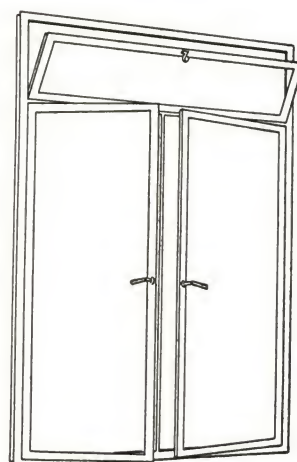
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6

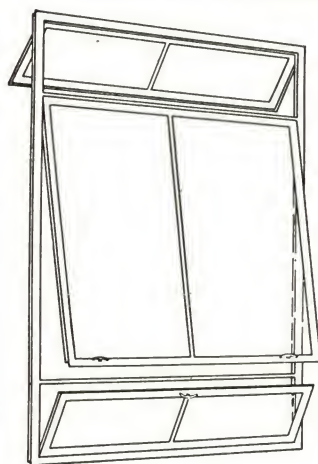


7

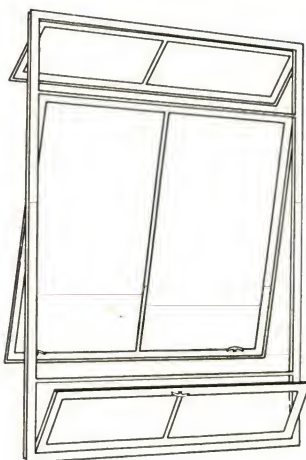


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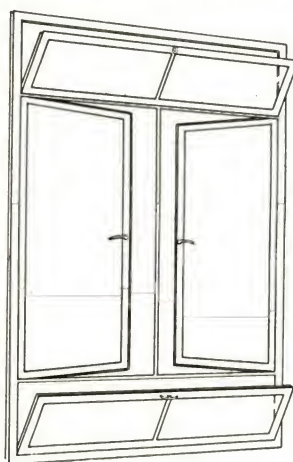
BELOW: COMBINATIONS OF IN-SWINGING AND OUT-SWINGING SASH



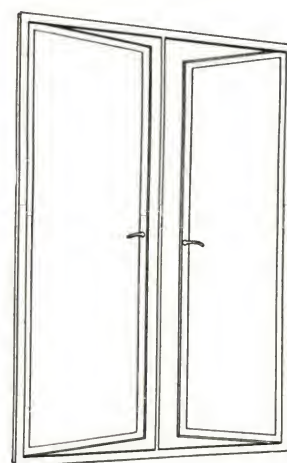
9



10



11



12

STANDARD TYPES
IN-SWINGING, OUT-SWINGING AND
COMBINATIONS OF BOTH

THE
Kawneer
COMPANY
NILES, MICHIGAN
and subsidiaries

ALL SEALAIR WINDOWS HAVE CON-
TINUOUS 3-POINT CONTACT
WEATHERING

KAWNEER METAL DOORS

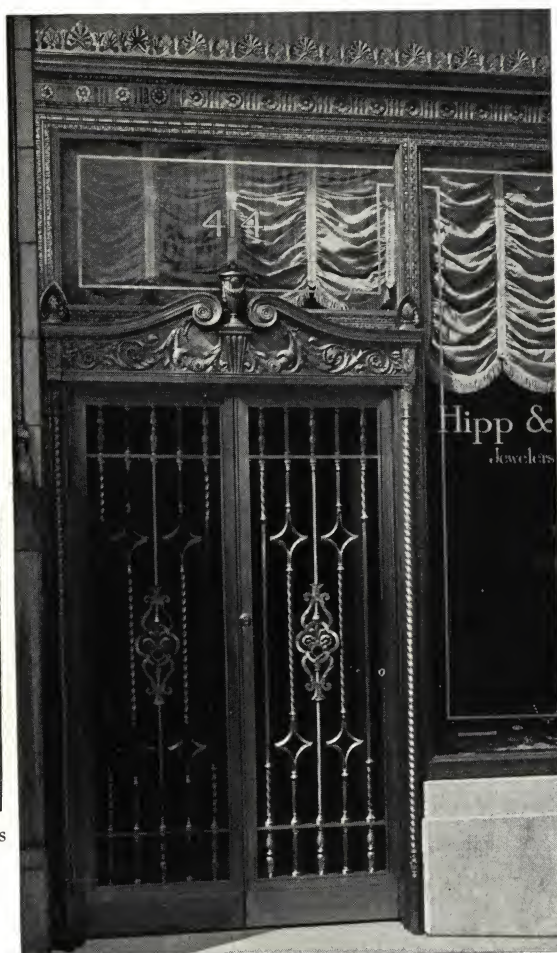


Detroit & Pontiac Investment Company, Pontiac, Michigan

FURNISHED IN BRONZE
OR ALUMINUM ALLOY



Walden Book Shop, Chicago, Illinois

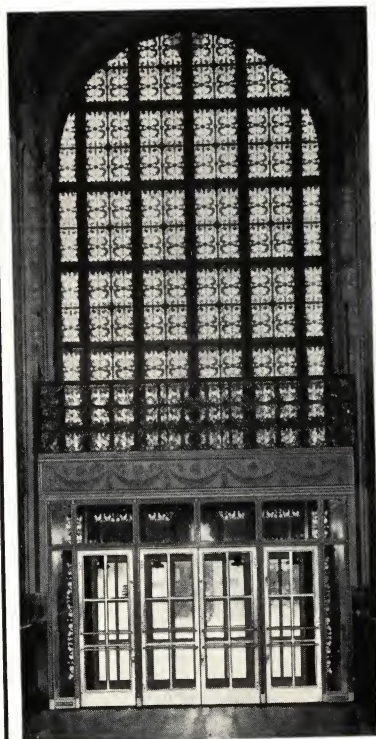


Hipp & Coburn Company, Chicago, Illinois



O'Neill Linen Shop, Chicago, Illinois

REPRESENTATIVE INSTALLATIONS



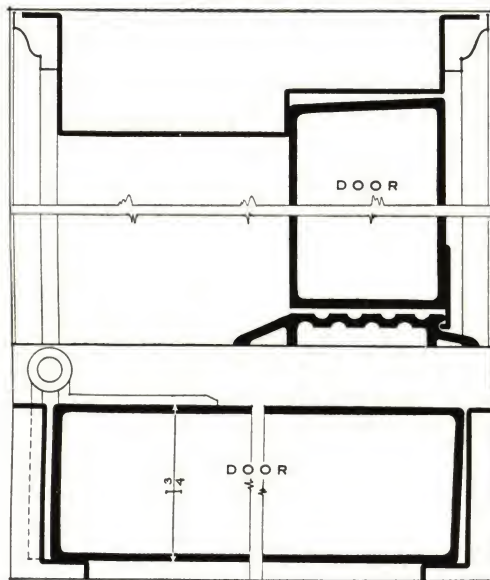
American Trust & Banking Company, Chattanooga, Tennessee



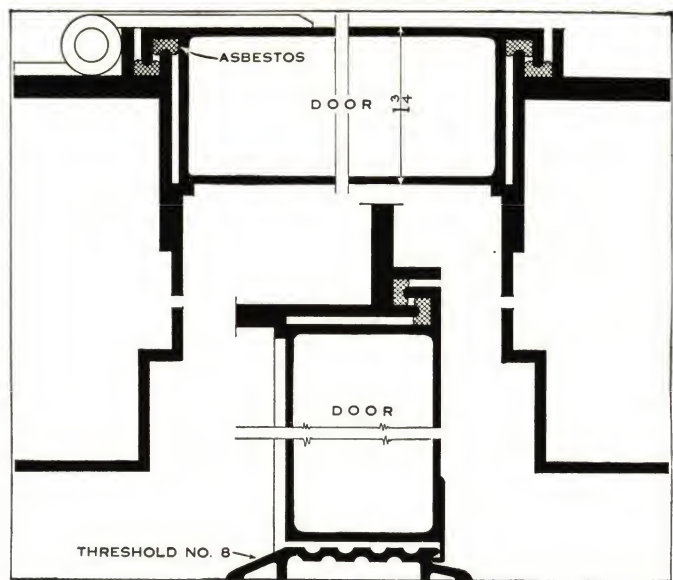
State Bank Building, Chicago, Illinois



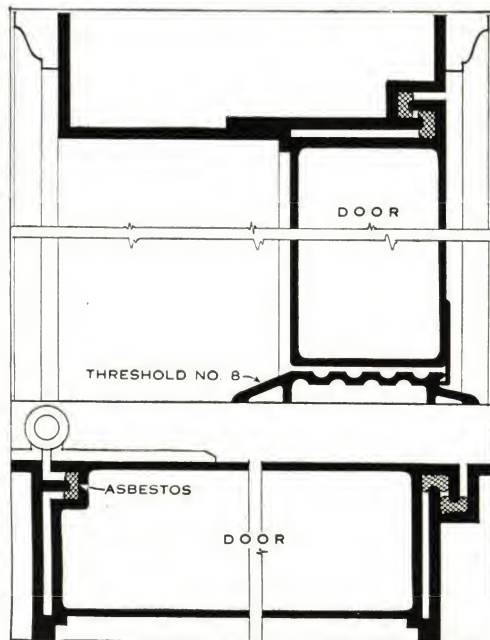
State Bank Building, Elevator Doors, Chicago, Illinois



DETAIL "A"



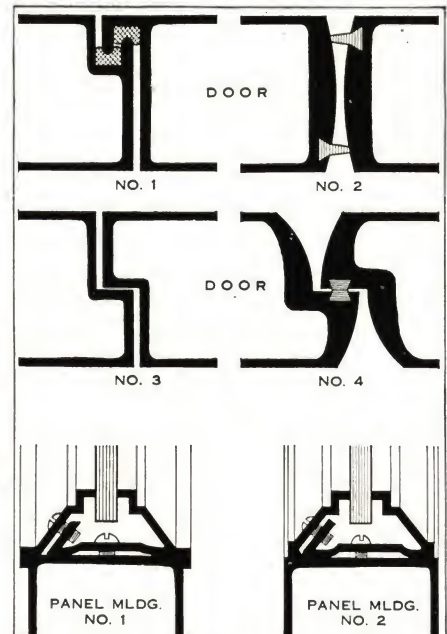
DETAIL "C"



DETAIL "B"

BUILT IN ANY PRACTICAL
STYLE OR SIZE - FLUSH OR
PANELED.

THE ASBESTOS CUSHION
MAKES THE DOOR NOISE-
LESS AND WEATHERPROOF,
SUITABLE FOR INTERIOR
AND EXTERIOR USE.



METAL DOOR DETAILS - HALF SIZE

KAWNEER WELDED BRONZE DOORS

The rails and stiles of this door consist of heavy tubular members, the joints of which are strongly welded. Panel mouldings are modern in character and secured in a manner to expedite glazing. Kick plates are made flush or sunken and in flat stock or cast panels. With

necessary hardware furnished and applied the complete ensemble presents a unit appropriate for use in the finest commercial buildings.

Kawneer doors are built to comply with architects' sizes and designs.

SPECIFICATIONS

MATERIALS—The metals used in the manufacture of these doors can be Bronze or Aluminum of standard commercial alloys, and the best that can be obtained for the purpose intended.

WORKMANSHIP—Frames shall be coped or mitered and welded. All welding shall be solid and continuous along the entire line of contact. All exposed welded joints shall be drawfiled or ground smooth, leaving the joined sections flush with each other.

GAUGES—Stiles and Rails—14 gauge. Panel mouldings 13 gauge. Jambs 13 gauge U. S. Standard.

THRESHOLDS—If thresholds are desired they can be furnished in extruded or cold rolled bronze.

HARDWARE—Hardware can be furnished by THE KAWNEER COMPANY or by the customer. In either case, it will be applied at the factory.

FINISH—All doors shall have a fine sand finish which shall be protected with a coating of Kre.

GUARANTEE—All material and workmanship will be guaranteed by the manufacturer against all defects for a period of twelve months after completion of the installation.

KAWNEER SHOWER STALL DOOR

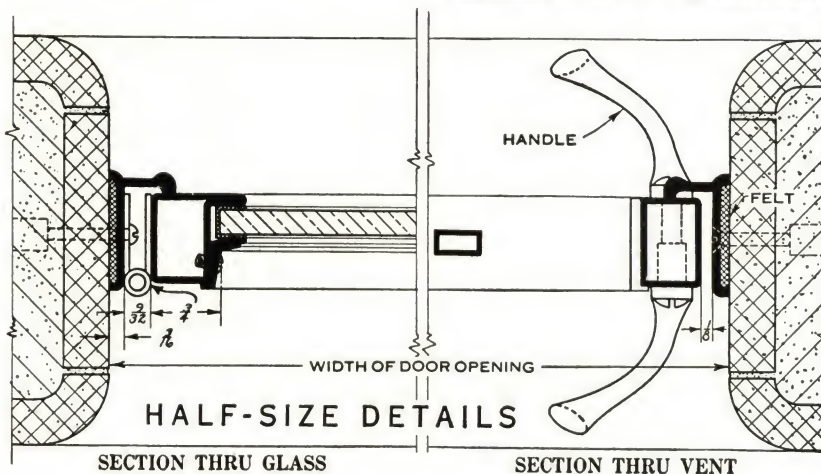
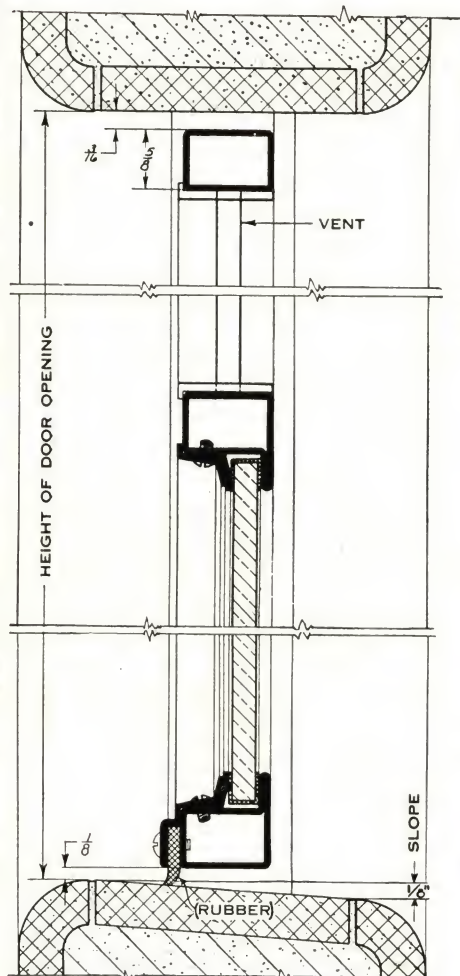
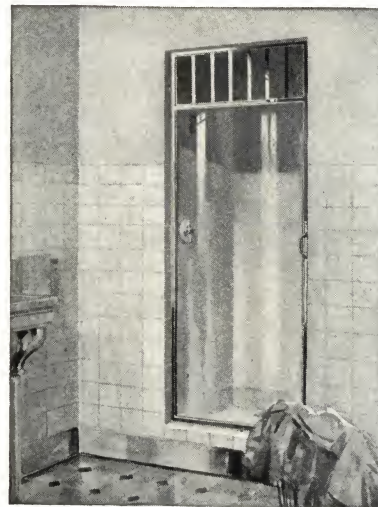
THE
Kawneer
COMPANY

NILES, MICHIGAN
and subsidiaries

PRODUCTS
RUSTLESS METAL STORE FRONTS,
SEALAIR WINDOWS, DOORS, AND
ARCHITECTURAL CASTINGS

Although the members of this door are smaller and the lines finer, maximum strength and rigidity are maintained. The corners are firmly welded, preventing any sagging or bending.

NOTE:—No. 10 Flat Head Wood Screws furnished for attaching jambs to tile unless otherwise ordered. Machine Screws and expansion shields furnished if desired.



S P E C I F I C A T I O N S

MATERIAL—Solid Bronze Chromium Plated or Solid Nickel-Silver.

FRAME—Special design No. 14 gauge (B & S) seamless tubing.

GLASS Moulding—Heavy extruded.

JAMBS—New design extruded members with rounded corners. Felt caulking strip $\frac{1}{8}$ " thick to take up inequalities between jambs and tile.

HINGE—Continuous piano type. (See note below.)

HANDLES—Offset type.

SPLASH SHIELD—Rounded extruded member.

CATCH—Improved double-acting spring catch.

RUBBER STRIP—Held in place by splash shield at bottom of door; has feather edge and can be easily adjusted to height.

GLASS—Polished plate, ribbon mitred, edges bound in $\frac{3}{4}$ " rubber tape.

FINISHES—1. Chromium Plate. (All Chromium Plate doors are first copper-plated, then duplex nickel-plated before undergoing the chromium plating process.)

2. Solid Nickel-Silver, polished.

3. Solid Nickel-Silver, Satin finish.

NOTE:—All doors are welded before plating.

We will be glad to submit sketches for batteries of doors and special bathroom treatments.

STANDARD SIZES

24" x 72" } These are tile opening sizes. We make all necessary allowances. Standard sizes carried in stock for immediate shipment. Special sizes to order.
27" x 72" }
27" x 78" }

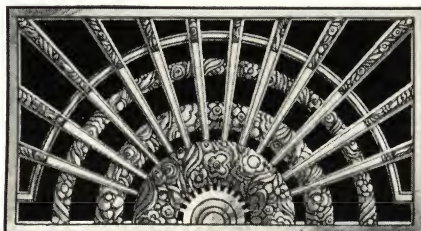
NOTE: When ordering, specify right or left hinge, facing door from outside.

Our estimating department will gladly furnish drawings and estimates for special requirements.

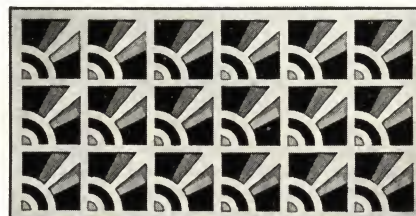
KAWNEER ARCHITECTURAL METAL PRODUCTS

Patented and Patents Applied for

CAST METAL GRILLES

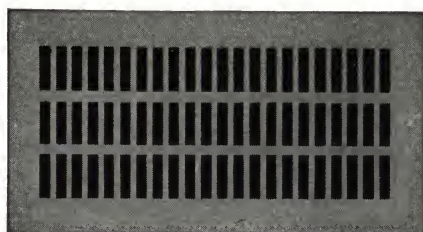


We are equipped to cast grilles of various metals in any design or size to suit special requirements

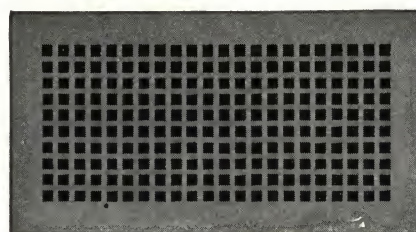


High grade architectural and sculptural cast metal work of all types furnished in accordance with the architect's design

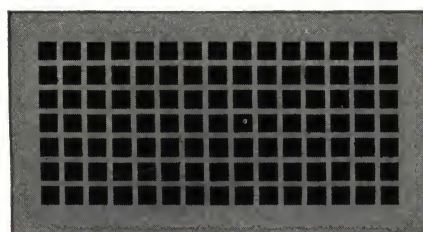
STAMPED METAL GRILLES



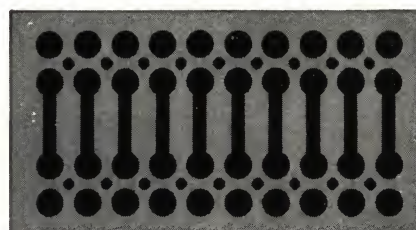
Type 1-G Stock sizes: 11"x5". 18"x9".
24"x10"



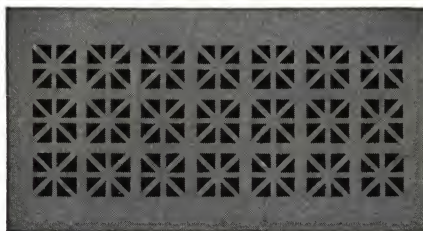
Type 2-G Stock sizes: 11"x5". 18"x9".
24"x10"



Type 3-G Stock sizes: 11"x5". 18"x9".
24"x10"



Type 4-G Stock sizes: 11"x5". 18"x9".
24"x10"



Type 5-G Stock sizes: 11"x5". 18"x9".
24"x10"



Special Type — Special designs cut to meet architects' requirements. Cost based on time and material

Grilles are furnished in .050 and .109 metal sharply cut from bronze, aluminum alloy or copper. The maximum size in either gauge is 24"x114".

If the .050 grilles are made in sizes exceed-

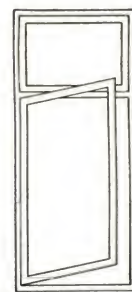
ing 24"x24", reinforcements will be attached to the back to provide ample strength.

Extra charge will be made for grilles furnished in dimensions other than those shown as stock sizes.

NO. 70 SHOW CASE DOORS; VENTILATORS

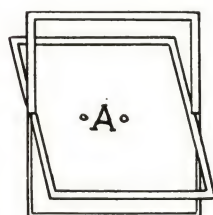


This show case door is furnished in various non-ferrous metals and finishes. It is built along narrow lines in harmony with our store front construction. The mitered corners are strongly welded

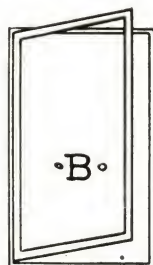


and the weld can be ground or left in its natural state as preferred. The felt weathering member makes the unit dustproof—a very desirable feature. Glazing is easily accomplished. Doors are equipped with necessary hardware.

VENTILATORS



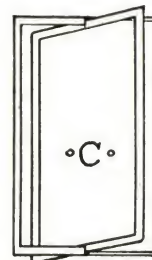
No. 57-A Pivoted at sides to swing in at top. Maximum width, 30"



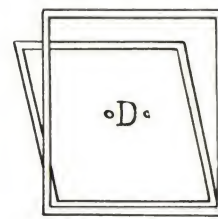
No. 57-B Hinged at sides to swing out. Maximum width, 24"



"H" Hinged at bottom to open in. Maximum width, 24". (Steel only) Copper, aluminum or bronze spray finish



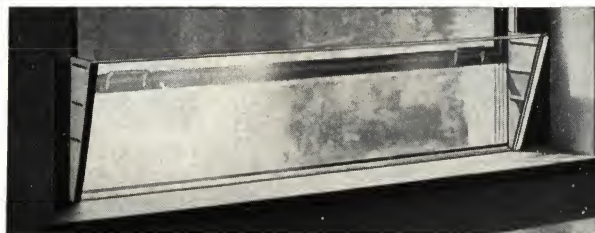
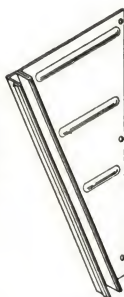
No. 57-C Pivoted at top and bottom. Maximum width, 30"



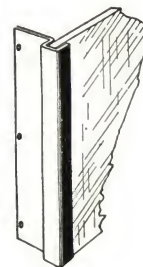
No. 57-D Hinged at bottom to swing in. Maximum width, 30"

WINDOW VENTILATOR BRACKETS

ANGLE TYPE
Furnished in pairs, in maroon or green baked enamel finish. Shipments include the necessary wood screws. Cost of special finishes on request

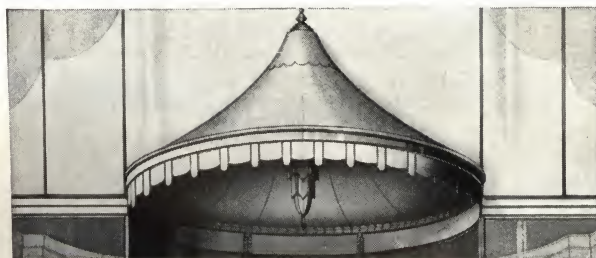


Anyone can apply these ventilator brackets to window jambs. Screw driver and screws are the only accessories needed. Brackets fasten to side jambs as shown above

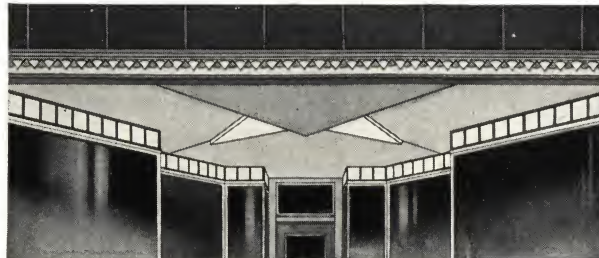


VERTICAL TYPE
Furnished in pairs, in maroon or green baked enamel finish. Shipments include the necessary wood screws. Cost of special finishes on request

METAL MARQUISE

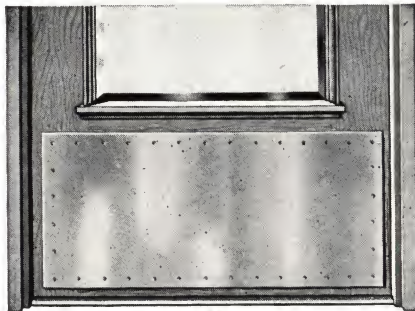


METAL CEILINGS



Custom-built metal marquee and ceilings are completely fabricated in our factories to meet any special requirements

KICK PLATES, THRESHOLDS, PUSH PLATES



KICK PLATES

Cut with square edges from .050 bronze, brass, aluminum alloy or copper. Holes drilled and screws furnished.

STANDARD SIZES

(IN INCHES)

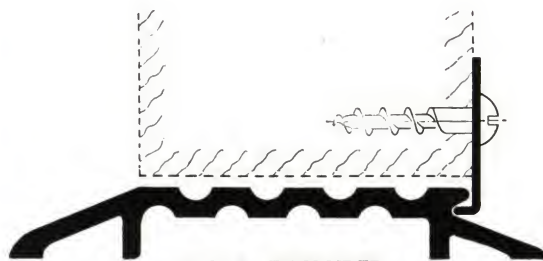
28x10	28x12
28x14	28x16
34x10	34x12
34x14	34x16
40x10	40x12
40x14	40x16

Other sizes furnished if desired.

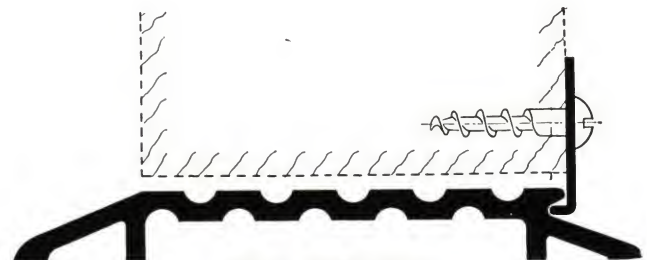


CAST KICK PLATES

Furnished in various cast metals in accordance with the architect's design and requirements.



NO. 8 EXTRUDED
FURNISHED WITH WEATHERING ANGLE



NO. 9 EXTRUDED
FURNISHED WITH WEATHERING ANGLE



NO. 7 EXTRUDED



NO. 6 EXTRUDED



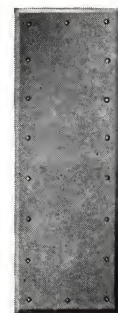
NO. 5 EXTRUDED



NO. 4 EXTRUDED



NO. B COLD ROLLED

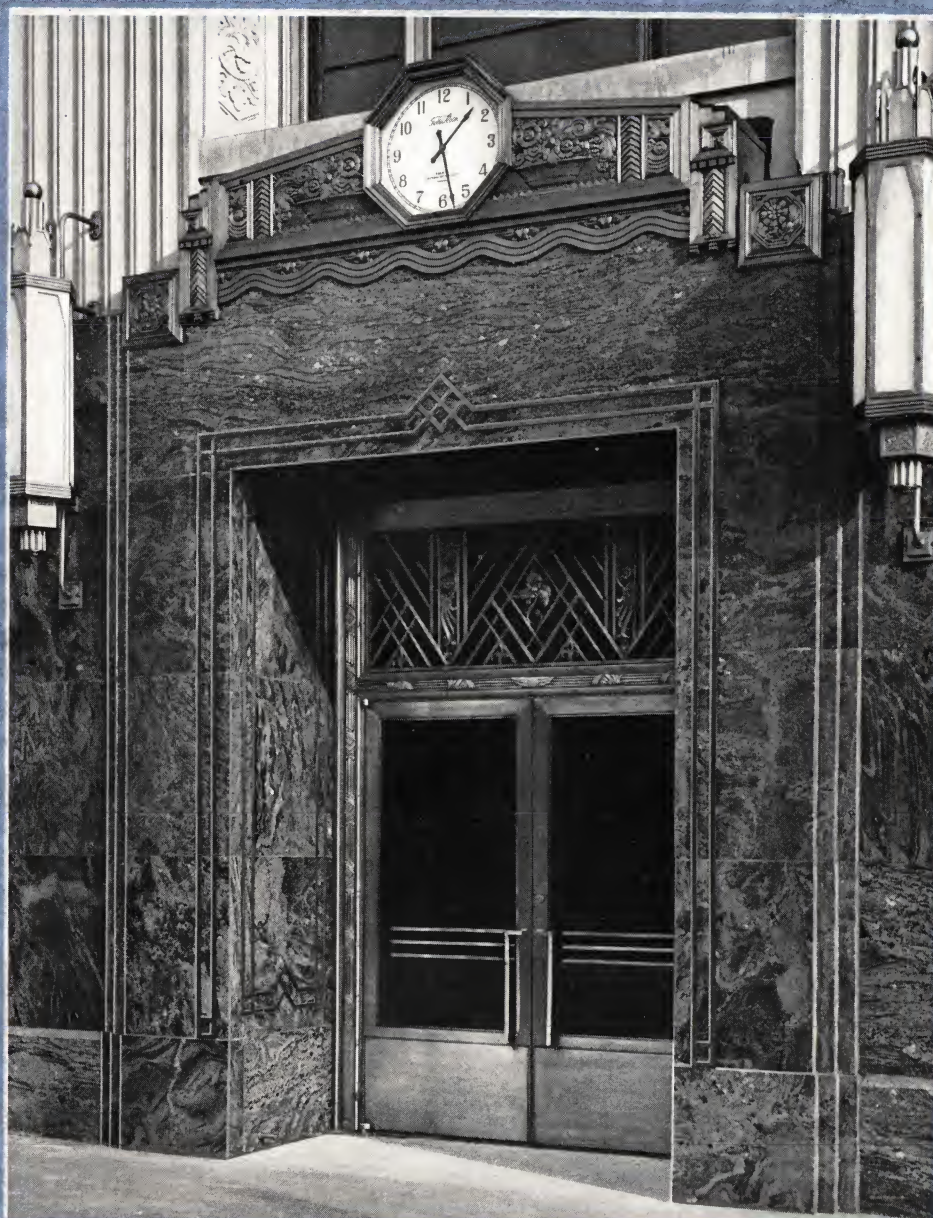


PUSH PLATES

Cut with square edges from .050 bronze, brass, aluminum alloy or copper. Holes drilled and screws furnished. Made in any size.

PATENTS AND COPYRIGHT APPLIED FOR

STORE FRONTS ~ WINDOWS DOORS ~ ARCHITECTURAL BRONZE



THE
Kawneer
COMPANY

NILES, MICHIGAN

FACTORIES

CHICAGO • BERKELEY

NILES • CHICAGO HEIGHTS